Wearable RFID for logistical processes

Dipl.-Ing. Michael Wölfle, Prof. Dr.-Ing. Dipl.-Wi.-Ing. Willibald A. Günthner TU München, Institute for Materials Handling, Material Flow, Logistics; Garching, Germany

Summary

The ongoing development of RFID technology in the industrial environment reveals various possibilities for the optimization of information processing and thus logistical process effectiveness and efficiency. Anyhow, if product or process information is only provided in digital form, the human intervention in this "virtual world" becomes more and more difficult. This article shows how data on RFID transponders can be exploited through a mobile RFID reader, using the example of manual order picking. The reader thereby indicates possible errors in the picking process while a person is reaching into a storage location. As the error dedication is automated through the usage of RFID, there is no additional effort for employees.